



**National
Aeronautical
Laboratory**

Documentation Sheet

Document Classification

RESTRICTED

Title : CALIBRATION OF ORIFICE METER
FOR THE GROUND AIR SUPPLY UNIT
OF G.T.R.E.

Document No.

PD PR 9202

Date of issue: Feb. 1992

Author(s) : M.S.CHIDANANDA
B.JAGANNAAATHA RAO
S.VENKATESH
V.S.KRISHNA KUMAR

Contents Pages-3
Tables-2
Fig. -3

Division : PROPULSION

No. of copies: 10

External participation : M/s Ventair Corporation
Bangalore

NAL Project No.

PR-9-001C

Sponsor : M/s.Ventair Corporation,
Bangalore

Sponsor's Project No.

Approval : Head, Propulsion Division

Remarks :

Keywords : ORIFICE METER
FLOW CALIBRATION
FLOW METER

Abstract :

This report presents details of calibration of Orifice plate fabricated for use in a groundair supply unit at GTRE, Bangalore. The calibration was calibrated using dry air at ambient temperature, with the inlet absolute pressure varying from 1.46 to 5.40 kg /cm². The corresponding air flow rates varied from 1589 kg/hr to 7475 kg / hr. A suitable calibration factor was derived and a set of calibration curves plotted for easy reference.